# ALMA Proposal Preparation Tutorials







Argelander-Institut für Astronomie







#### The Life of an ALMA Project

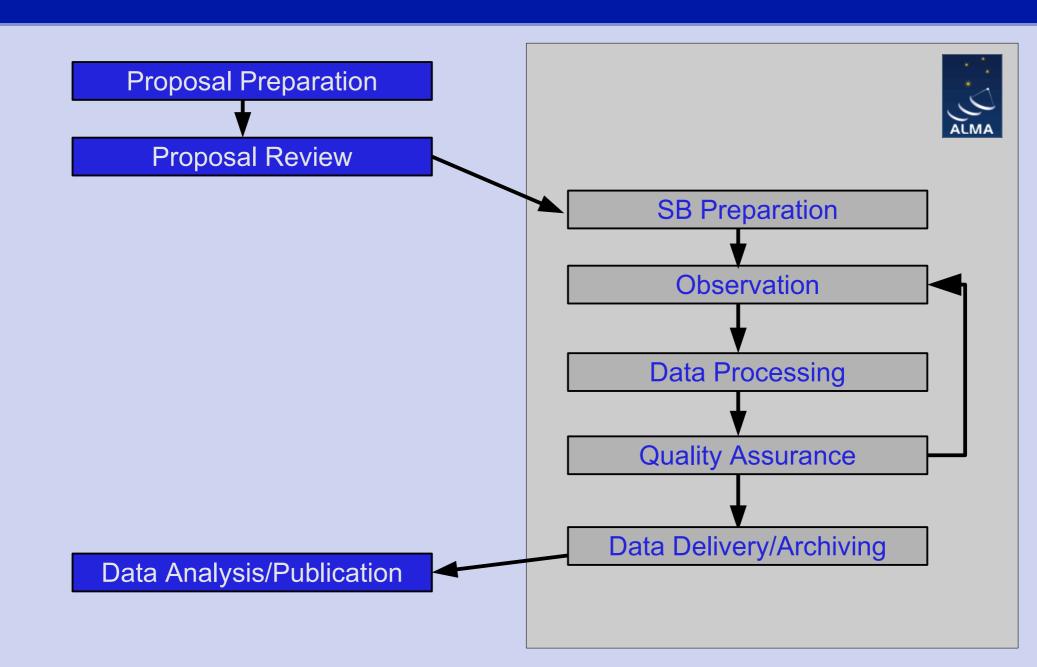
## Part 1 From the Idea to the ALMA Proposal

Reinhold Schaaf

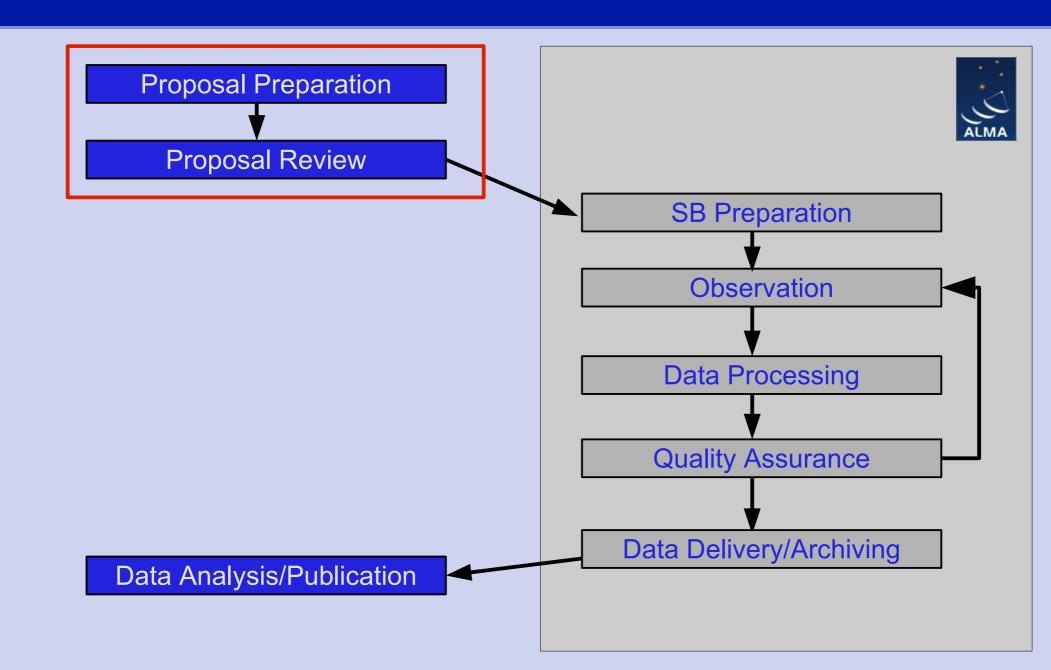
Argelander-Institut für Astronomie der Universität Bonn

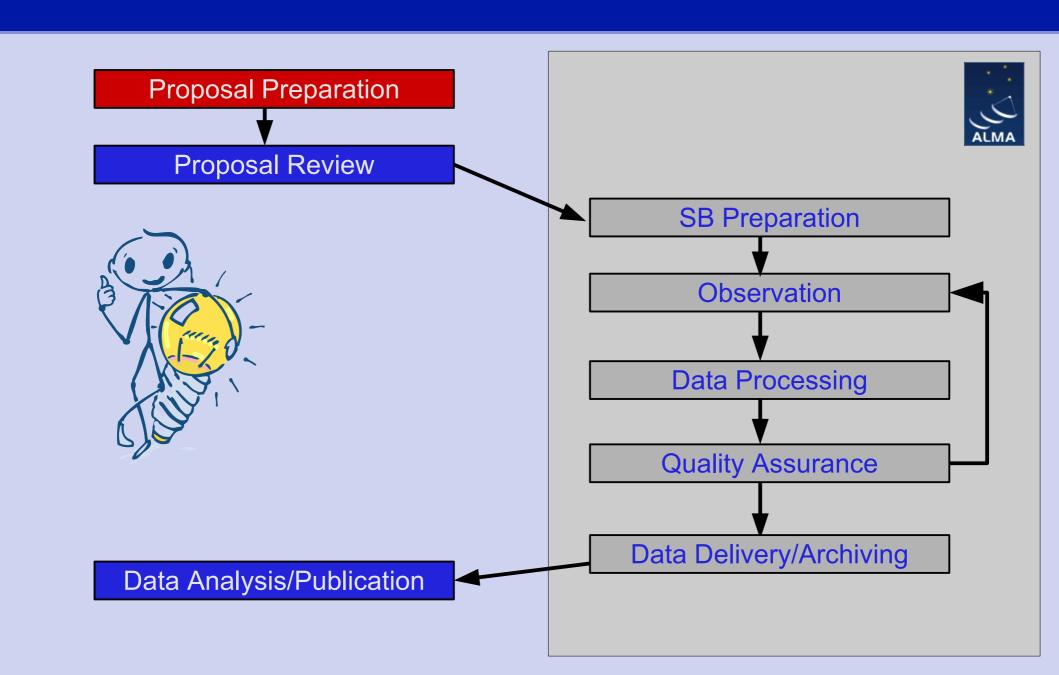
German ARC node

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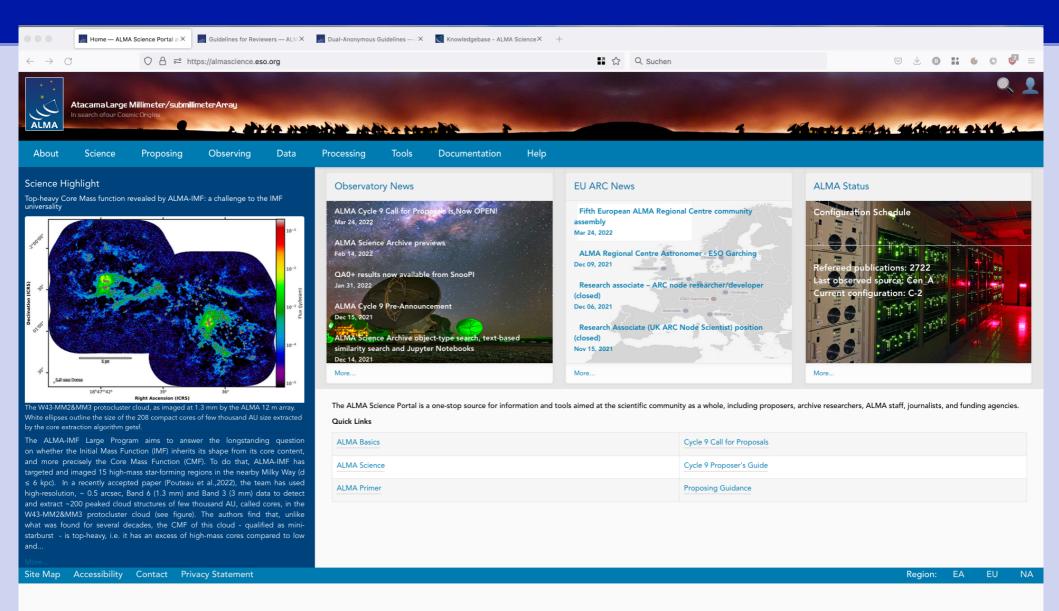


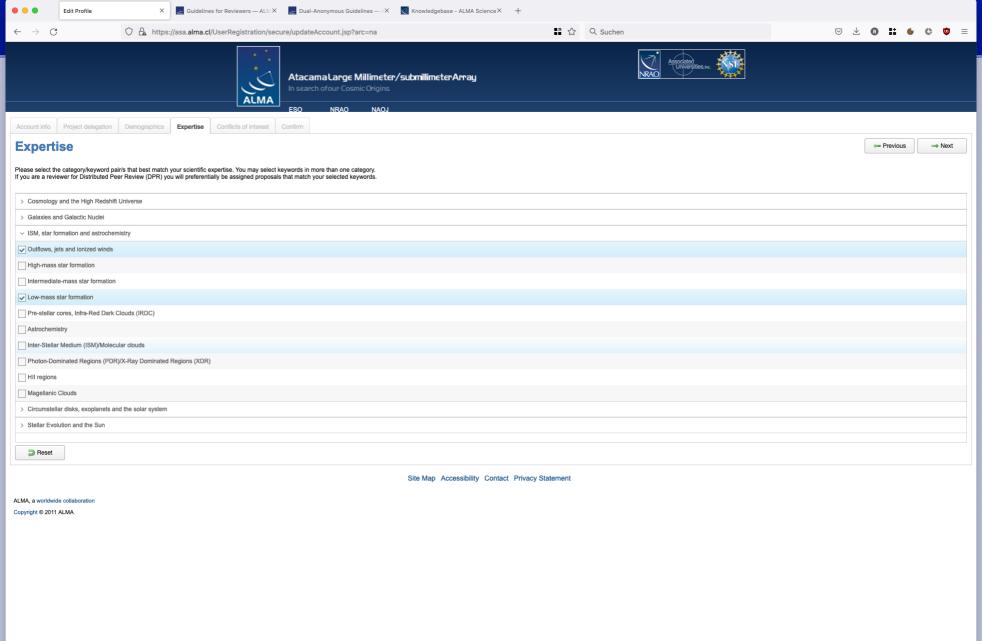
#### The Life of an ALMA Project





- First stop: ALMA Science Portal almascience.eso.org
- Get ALMA Account (PI, Co-PIs, Co-Is)
  - Check and update user information
  - Fill in areas of expertise carefully!
    - Do so before April 26<sup>th</sup> 2022
  - Specify any conflicts of interest





#### One PI:

- Responsible for proposal
- Official contact between ALMA and proposing team
- Affiliation of PI determines supporting ARC
  - In Europe also supporting ARC Node
- Submits proposal
- Gets notified when data is accessible
- Can download data
  - May grant others access to data

- Any number of Co-Pls:
  - Large Programs & mmVLBI only
  - Share overall responsibility in conducting the proposed science
  - Supporting ARC for Large Programs can be changed to that of a Co-PI
- Any number of Co-Is:
  - Any other individual actively involved
- PI, Co-PIs and Co-Is are entitled to receive help from or discuss project details with ALMA staff

- Get from ALMA Science Portal
  - Documentation for new cycle
    - Proposer's Guide
    - ALMA Users' Policy
    - ALMA Primer
    - Technical Handbook
    - OT documentation
    - Dual-anonymous review process guidelines (https:// almascience.eso.org/proposing/alma-proposalreview/dual-anonymous)
    - ...
  - Latest version of ALMA Observing Tool (OT)
    - Mandatory to prepare proposals
    - Available for Linux, MacOS, Windows

- OT must be used for preparation, validation and submission of ALMA proposals
  - New proposals for the new cycle
  - Re-submission of proposals for previous cycle that are not completely observed
- Deadline: April 21<sup>st</sup> 2022, 15:00 UT

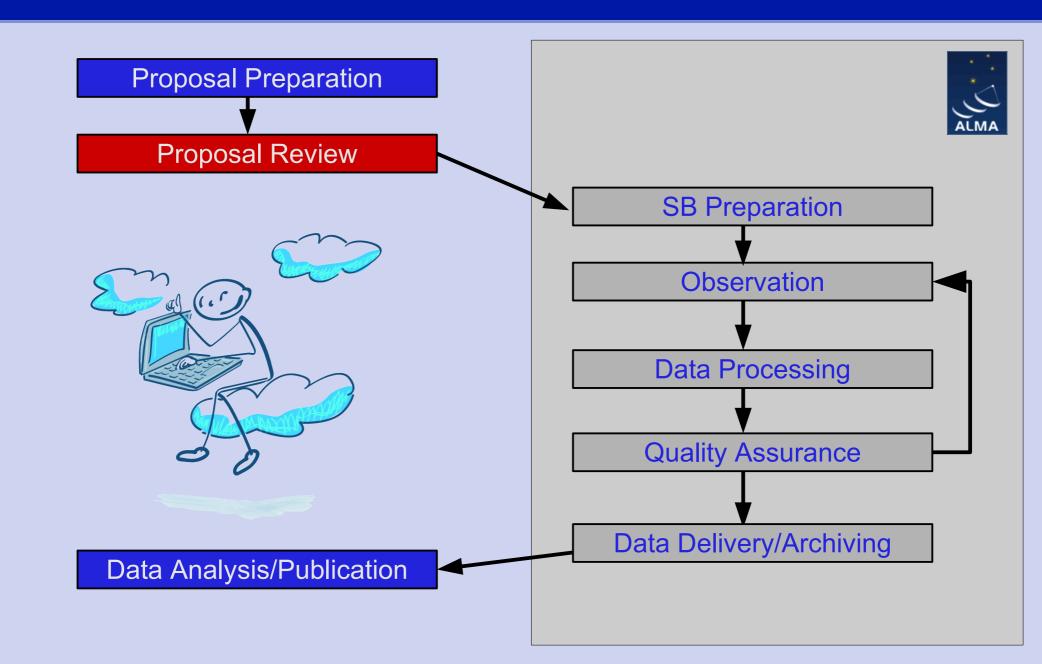
No supplemental call for Stand-alone ACA proposals in Cycle 9!

- ALMA highly over-subscribed, so proposals must be strong
  - Science case
  - Technical justification
  - For detailed considerations that may influence probability of acceptance s. *Proposer's Guide*
- Check whether proposal is duplication of existing observation
  - ALMA Archive (almascience.eso.org/aq)
  - List of earlier programs
     (almascience.eso.org/proposing/duplications)

- Proposal types:
  - Regular proposals
  - Target of Opportunity (ToO) proposals
    - Target and time not known in advance
  - Large Programs
    - More than 50 hrs 12-m array or 150 hrs standalone ACA
  - mm-VLBI and Phased Array proposals
    - VLBI proposals require additional proposal at VLBI network
  - Director Discretionary Time (DDT) proposals
    - Proposals may be submitted at any time

- Dual-Anonymous Proposal Review
  - Proposal reviewers do not know identity of proposers and vice versa
  - Proposers must ensure their anonymity is preserved
  - Follow guidelines in *Proposer's Guide* and *Dual-anonymous review process guidelines* (https://almascience.eso.org/proposing/alma-proposal-review/dual-anonymous)
  - Proposals that do not follow these guidelines may be rejected!

- Support:
  - At Science Portal
    - OT documentation at Science Portal
    - Video tutorials
    - Knowledge base
    - ALMA Helpdesk
  - At ARC nodes
- Make sure to watch Knowledge Base Articles on last-minute changes, clarifications or bug reports
  - help.almascience.org/kb



- All proposals with the execption of Large Programs and DDT proposals will go through Distributed Review Process
  - Large Programs and DDT proposals will be assessed by ALMA Proposal Review Panel
- Every proposal must designate one member (PI, Co-PI or Co-I) as reviewer for 10 proposals
- Reviewer will be assigned 10 proposals matching his/her areas of expertise for review and ranking
- Therefore: make sure your areas of expertise and conflict of interests at Science Portal are correct and up-to-date!

- Deadline for ranking/review: June 1st 2022, 15:00 UT
- If deadline is missed, reviewer's proposal will be rejected!
- An optional second stage will allow modification of ranks and reviews based on other reviewers' comments
  - Deadline for Stage 2: June 16<sup>th</sup> 2022
- See https://almascience.eso.org/proposing/almaproposal-review and Proposer's Guide for details

- PI will receive notification (August 2022)
  - Assigned grade
  - Complete reviews from distributed review process or consensus report of review panel
- Grades for accepted proposals:
  - A: Highest priority, carried over to following cycle if not completed
  - B: Highest priority, not carried over to following cycle
  - **C:** Filler project, executed if conditions allow no higher priority project

 Time shares of nominal time (4300 hrs for each of 12-m, ACA and TP):

- A: up to 33%

- B: 67%

- C: filler time

Regional shares:

- Europe: 33.75%

- North America: 33.75%

- East Asia: 22.5%

- Chile: 10%

- Open Sky: all regions contribute

- Shares by proposal types:
  - mmVLBI: up to 5%
  - DDT Proposals: up to 5%
  - Large Programs will not be allowed to exceed 33% (for configurations C-9 and C-10) or 50% (for other configurations) of time for given LST range

- See Proposer's Guide and ALMA Users' Policies for policies for
  - Duplications
  - Large Programs
  - Re-submission of unfinished proposals
  - De-scoping
  - Publication of proposal metadata

### Questions?

Join our virtual community day or contact us at arc@astro.uni-bonn.de

www.astro.uni-bonn.de/ARC/events/proposalprep2022





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